



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Raymond John Balzer

Group Art Unit: TBA

Serial No.: 10/078,883

Examiner: TBA

Filed: February 19, 2002

Docket No. 10010880-1

For: **Boundary Scan With Ground Bounce Recovery**

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

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Sir:

In regard to the above-referenced application, the Applicants submit the following preliminary amendments and remarks to be respectively entered and considered prior to examination.

It is not believed that extensions of time or fees for net addition of claims are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to Deposit Account No. 20-0778.

10078883.053402

IN THE SPECIFICATION

Amend the specification as follows:

Please substitute the following clean copy paragraph for the pending paragraph that extends from page 13, line 1 through page 13, line 3.

FIG. 7A-7J show the state diagram of FIG. 3 with controller transitions for recovering from any of the group of four undetermined controller states shown in FIG 6.

Please substitute the following clean copy paragraph for the pending paragraph that extends from page 21, line 10 through page 21, line 18.

For non-uniform ground bounce, where the entire boundary scan chain 210 is not uniformly affected, the recovery method shown in FIGS. 7A-7J may be difficult to implement because the entire boundary scan chain will not necessarily be in the same state when the vector data is being shifted in. For example, if the entire chain 210 (FIG. 2) is not in the SHIFT-DR state shown in FIGS. 7C and 7G, then some of the data will not get shifted into the appropriate target locations. Consequently, after a non-uniform ground bounce followed by the state transitions shown in FIGS. 7A-7J, the entire boundary scan chain will not be fully re-initialized to the desired data values.

IN THE DRAWINGS

Please approve the proposed drawing changes shown in red on the attached sheet wherein FIG. 7K has been relabeled as FIG. 8 in order to conform with the written specification.

REMARKS

A Notice Of Omitted Items in a Nonprovisional Application was mailed in connection with the application identified above on March 22, 2002, in which it was noted that FIG. 8 described in the specification appeared to have been omitted from the application. Upon further review of the application, the undersigned noted that FIG. 8

was mislabeled as FIG. 7K. Accordingly, proposed drawing changes are attached to this amendment in which FIG. 7K has been relabeled as FIG. 8. In addition, references to FIG. 7K in the specification have been amended to refer to FIG. 8 in order to conform the drawings with the written specification. It is respectfully submitted that these amendments do not add new matter to the present application.

If there are any questions concerning this amendment, or the application in general, then the examiner is urged to contact the undersigned by telephone in order to expedite prosecution.

Respectfully submitted ,

**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**

 5-13-02

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Docket No. 10010880-1



ANNOTATED VERSION OF MODIFIED

TITLE/SPECIFICATION/ABSTRACT TO SHOW CHANGES MADE

The following is a marked up version of the amended claims. Amend the following claims by adding the language that is underlined ("___") and by deleting the language that is enclosed within brackets ("[]"):

Page 13, line 1 through page 13, line 3.

FIG. 7A-7[K] J show the state diagram of FIG. 3 with controller transitions for recovering from any of the group of four undetermined controller states shown in FIG 6.

Page 21, line 10 through page 21, line 18.

For non-uniform ground bounce, where the entire boundary scan chain 210 is not uniformly affected, the recovery method shown in FIGS. 7A-7[K] J may be difficult to implement because the entire boundary scan chain will not necessarily be in the same state when the vector data is being shifted in. For example, if the entire chain 210 (FIG. 2) is not in the SHIFT-DR state shown in FIGS. 7C and 7G, then some of the data will not get shifted into the appropriate target locations. Consequently, after a non-uniform ground bounce followed by the state transitions shown in FIGS. 7A-7J, the entire boundary scan chain will not be fully re-initialized to the desired data values.

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